AMENDMENTS TO THE CLAIMS

1-13. (Canceled)

14. (Currently amended) A particulate matter vibro-fluidizing apparatus comprising

vibrating means and means for treating the particulate matter,

said vibrating means providing a vibrating motion in a substantially vertical direction,

said means for treating the particulate matter comprising a set of different types of

vibrating bodies operating in cooperation with said vibrating means, said vibrating bodies

comprising a container having a generally flat horizontal bottom, said container being filled with

the particulate matter defining a particulate matter layer, and a vibrating medium installed within

the container so that said vibrating medium is at least partially disposed within said particulate

matter layer, said vibrating medium being unattached to the container, and

wherein-vibro-fluidizational behavior of said particulate matter in said-particulate matter

layer is controlled by said means for treating the particulate matter providing a cooperative

vibrating action occurring between said different types of vibrating bodies for controlling vibro-

fluidizational behavior of said particulate matter in said particulate matter layer so as to generate

circulation in said particulate matter layer by applying vibrations thereto where said particulate

matter repeatedly appears at the surface of said particulate matter layer from the bottom of said

container.

15. (Canceled)

16. (Previously presented) The particulate matter vibro-fluidizing apparatus of

claim 14, wherein the cooperation of the different vibrating bodies of the vibrating means

comprises cooperation where the vibrating means is coupled with one of the vibrating bodies,

and cooperation where the other vibrating body receives vibrations from the one vibrating body.

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Suite 2800 Seattle, Washington 98101 206.682.8100 17. (Previously presented) The particulate matter vibro-fluidizing apparatus of

claim 14, wherein the cooperation of the different types of vibrating bodies of the vibrating

means is cooperation coupling with the vibrating means in such a manner that each vibrating

body is controlled by an individual vibration.

18. (Previously presented) The particulate matter vibro-fluidizing apparatus of

claim 14, wherein the vibrating medium is a porous plate.

19. (Previously presented) The particulate matter vibro-fluidizing apparatus of

claim 14, wherein the vibrating medium is an aggregate comprising a plurality of spherical

bodies.

20-21. (Canceled)

22. (Previously presented) A particulate matter vibration treatment apparatus having

vibrating means and means for treating the particulate matter, said means for treating the

particulate matter comprising:

a container having a bottom and operating in cooperation with said vibrating means; and

amplifying means for amplifying vibrations of the container;

wherein said amplifying means comprises a plate being provided inside said container

spaced away from the bottom of the container and floating bodies being provided between said

plate and the container so as to collide with said plate, and wherein said particulate matter placed

on said plate is to be vibration-treated by a cooperative vibration action of vibration due to the

amplifying means and vibration of the container.

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23. (Previously presented) The particulate matter vibration treatment apparatus of claim 22, wherein the vibrating means cooperates in such a manner as to apply vertical vibrations to the bottom part of the container.

24-25. (Canceled)

26. (Previously presented) The particulate matter vibration treatment apparatus of claim 22, wherein the vibrating means cooperates in such a manner as to apply vertical vibrations to the bottom part of the container.

27. (Previously presented) The particulate matter vibration treatment apparatus of claim 22, wherein the vibration action comprises a cooperative vibration action of vibration due to the amplifying means and vibration of the container.

28. (Previously presented) The particulate matter vibration treatment apparatus of claim 22, wherein the plate is comprised of a rubber sheet, a metal material or a resin material.

29. (Previously presented) The particulate matter vibration treatment apparatus of claim 22, wherein the floating bodies are constituted by a plurality of spherical bodies made of metal, resin or rubber.

30. (Previously presented) The particulate matter vibration treatment apparatus of claim 22, wherein the particulate matter treatment means is used within a vacuum.

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